

Fact Sheet



For Final Renewal Permitting Action Under 45CSR30 and Title V of the Clean Air Act

Permit Number: R30-04100012-2007
Plant Identification Number: 04100012
Permittee: **Dominion Transmission, Inc**
Facility Name: **Sweeney Compressor Station**
Mailing Address: 445 West Main Street
Clarksburg, WV 26031

Physical Location:	Camden, Lewis County, West Virginia
UTM Coordinates:	530.50 km Easting • 4,328.80 km Northing • Zone 17
Directions:	Interstate I-79 North to the Weston/Buckhannon exit (exit 99). Take Route 33 to Weston. Go straight through two stoplights and at the third light (at Main Street) turn left. Go one block to 2 nd Street, next light, and turn right, following Route 33 West. Travel approximately 6 miles to Camden. Turn right on County Route 9 and go 6.3 miles to County Route 6 and go 1.7 miles. Station is on left side of road across a small bridge.

Facility Description

The Sweeney Compressor Station is a natural gas transmission facility covered by Standard Industrial Classification (SIC) 4922.

Emissions Summary:

Plantwide Emissions Summary [Tons per Year]		
Criteria Pollutants	Potential Emissions	2005 Actual Emissions
Carbon Monoxide (CO)	183.47	69.36
Nitrogen Oxides (NO _x)	1096.66	396.18
Particulate Matter (PM ₁₀)	3.11	1.27
Total Particulate Matter (TSP)	3.11	1.27
Sulfur Dioxide (SO ₂)	0.18	0.07
Volatile Organic Compounds (VOC)	150.61	59.22
<i>PM₁₀ is a component of TSP.</i>		
Hazardous Air Pollutants	Potential Emissions	2005 Actual Emissions
Total HAPs*	11.82	5.8

Some of the above HAPs may be counted as PM or VOCs.

* HAPs are not speciated because no applicability was triggered.

Title V Program Applicability Basis

This facility has the potential to emit 1096.66 tons per year of Nitrogen Oxides, 183.47 tons per year of Carbon Monoxide, and 150.61 tons per year of Volatile Organic Compounds. Due to this facility's potential to emit over 100 tons per year of criteria pollutant, Dominion Transmission, Inc is required to have an operating permit pursuant to Title V of the Federal Clean Air Act as amended and 45CSR30.

Legal and Factual Basis for Permit Conditions

The State and Federally-enforceable conditions of the Title V Operating Permits are based upon the requirements of the State of West Virginia Operating Permit Rule 45CSR30 for the purposes of Title V of the Federal Clean Air Act and the underlying applicable requirements in other state and federal rules.

This facility has been found to be subject to the following applicable rules:

Federal and State:	45CSR2	Indirect Heat Exchangers
	45CSR6	Open burning prohibited.
	45CSR10	Emission of Sulfur Oxides
	45CSR11	Standby plans for emergency episodes.
	45CSR13	Construction Permits
	45CSR17	Fugitive Particulate Matter
	WV Code § 22-5-4 (a) (14)	The Secretary can request any pertinent information such as annual emission inventory reporting.
	45CSR30	Operating permit requirement.
	40 C.F.R 60.18	NSPS Flare Requirements
	40 C.F.R. Part 61	Asbestos inspection and removal
State Only:	40 C.F.R. Part 82, Subpart F	Ozone depleting substances
	45CSR4	No objectionable odors.

Each State and Federally-enforceable condition of the draft Title V Operating Permit references the specific relevant requirements of 45CSR30 or the applicable requirement upon which it is based. Any condition of

the draft Title V permit that is enforceable by the State but is not Federally-enforceable is identified in the draft Title V permit as such.

The Secretary's authority to require standards under 40 C.F.R. Part 60 (NSPS), 40 C.F.R. Part 61 (NESHAPs), and 40 C.F.R. Part 63 (NESHAPs MACT) is provided in West Virginia Code §§ 22-5-1 *et seq.*, 45CSR16, 45CSR15, 45CSR34 and 45CSR30.

Active Permits/Consent Orders

Permit or Consent Order Number	Date of Issuance	Permit Determinations or Amendments That Affect the Permit (<i>if any</i>)
R13-2498A	April 28, 2003	

Conditions from this facility's Rule 13 permit(s) governing construction-related specifications and timing requirements will not be included in the Title V Operating Permit but will remain independently enforceable under the applicable Rule 13 permit(s). All other conditions from this facility's Rule 13 permit(s) governing the source's operation and compliance have been incorporated into this Title V permit in accordance with the "General Requirement Comparison Table B," which may be downloaded from DAQ's website.

Determinations and Justifications

1. According to the following calculation, compliance with FERC (Federal Energy Regulatory Commission) limit for total sulfur of 20 grains/100 cu.ft will assure compliance with 45CSR10 limit of 2000 ppm SO₂:
$$(20\text{grains of S}/100\text{ cu.ft of gas}) \times (1\text{lb}/7000\text{ grains}) \times (1\text{lbmol S}/32\text{ lb S}) \times (1\text{lbmol SO}_2/1\text{lbmol S}) \times (385.1\text{ cu.ft of gas}/1\text{lbmol gas}) \times 10^6 = 343\text{ ppm of SO}_2$$

Compliance with FERC limit for H₂S of 0.25 grains/100 cu.ft will assure compliance with 45CSR10 limit of 50 grains/100 cu.ft.
2. Formaldehyde emissions for four 1350 hp Cooper GMVA-10 engines were calculated by using November, 2006 engine testing data conducted by the permittee. The November, 2006 test resulted in emission factor of 0.248 lbs/hr of formaldehyde emissions from the engines at full load. 40 C.F.R 63 Subparts HHH and ZZZZ are not applicable to this facility because the facility is not a major source of HAPs.
3. According to 45 CSR §2-11, RBR01, HTR01 & BLR01 are exempt from MRR (Monitoring, recordkeeping and reporting) requirements because RBR01, HTR01 & BLR01's heat input is less than ten (10) million B.T.U's per hour.
4. The limitations set forth in Sections 5.1.9 thru 5.1.14 are established to ensure that the permittee operates and maintains a control device that reduces hazardous air pollutant emissions below the applicability threshold specified in 40 CFR Part 63, Subpart HHH.

Non-Applicability Determinations

The following requirements have been determined not to be applicable to the subject facility due to the following:

Since the last Title V modification WVDEP has determined that 45CSR10 does not apply to gas fired engines.

40 CFR 64 - Engines do not have any control; Glycol Dehydration unit is not a major source of HAPs. Therefore, in accordance with 40 C.F.R § 64.2(a), CAM is not applicable to this facility.

Request for Variances or Alternatives

N/A

Insignificant Activities

Insignificant emission unit(s) and activities are identified in the Title V application.

Comment Period

Beginning Date: February 28, 2007

Ending Date: March 30, 2007

All written comments should be addressed to the following individual and office:

U.K.Bachhawat
Title V Permit Writer
West Virginia Department of Environmental Protection
Division of Air Quality
601 57th Street SE
Charleston, WV 25304

Procedure for Requesting Public Hearing

During the public comment period, any interested person may submit written comments on the draft permit and may request a public hearing, if no public hearing has already been scheduled. A request for public hearing shall be in writing and shall state the nature of the issues proposed to be raised in the hearing. The Secretary shall grant such a request for a hearing if he/she concludes that a public hearing is appropriate. Any public hearing shall be held in the general area in which the facility is located.

Point of Contact

U.K.Bachhawat
West Virginia Department of Environmental Protection
Division of Air Quality
601 57th Street SE
Charleston, WV 25304
Phone: 304/926-0499 ext. 1256 • Fax: 304/926-0478

Response to Comments (Statement of Basis)

Not applicable.